

~~The~~ →
Grain Coloration Etching and Hatch Etching
on Aluminum-Copper-Magnesium Alloys, by H.
Kostrov, 5 pp.

GERMAN, per, Z Metallkunde, Vol XXXIX, No 8,
1948, pp 333-342.

1 SLA T
1 2308

Sci - Minerals/Metals
Oct 57

54, 027

On the Modification of Aluminium-Silicon
Alloys. UNCL

GERMAN, per, Z Metallkunde, Vol XL, Jan 1949,
pp 24-29.

British Iron and Steel Ind
(no number given)

Sci - Min/Met
Sep 59

98, 386

A Study of the Oxidation of Ni-Cr Alloys, by
L. Horn.

GERMAN, per, Z. Metallkde., Vol 40, 1949, pp 73-76.

*NTIS/USDC/NBS TT 71-55053

Available NBS Only

May 71

Equilibrium Studies in the Zinc-Aluminium and
Zinc-Aluminium-Copper Systems, by Erich
Gebhardt, 16 pp.

GERMAN, per, Z Metallkunde, Vol X, 1949,
pp 136-140.

AEC RP Tr-540

Sci - Min/Met
May 61

150,372

Effect of Titanium Content of Steel in Hot Dip Galvanizing, by H. Bablik, F. Gotzl, R. Kukacska.

GERMAN, per, Zeitschrift Fur Metallkunde, Vol XL,
1949, pp 176-179.

Bratcher Tr 2364

Scientific - Min/Metals \$3.85

12,978

~~STAFF~~

Fahlenbrach, H. and Sixtus, K.
INVESTIGATIONS OF VARIOUS NON-MAGNETIC
STATES. [1962] 12p. (refs. figs. tables omitted).
Order from SLA \$1.60 62-16992

Trans. of Zeitschrift für Metallkunde (West
Germany) 1949, v. 40, no. 5, p. 187-193.

DESCRIPTORS: *Ferromagnetic materials, Iron
alloys, Nickel alloys, Silicon alloys, Aluminum
alloys, Alloys, Nickel, *Magnetism, Permeability,
Phase transitions, Wire, Resistance, Vibration,
Single crystals, Magnetic materials.

(Physics--Magnetism, TT, v. 8, no. 10)

62-16992

I. Fahlenbrach, H.
II. Sixtus, K.

Office of Technical Services

The Behaviour of Compacted Binary Mixtures of Gold
and Silver Powders on Sintering With Other
Metallic Powders, by Ernest Raub, Werner Plate,
19 pp.

GERMAN, per, Zeit fuer Metallk, Vol XL,
No 6, 1949, pp 206-214.

A.E.R.E. Harwell
Tr 563

Sci - Minerals/Metals/metallurgy.
32,924
Apr 56

Concerning the Solubility of Chromium, Vanadium,
Titanium, Manganese, and Zirconium in Aluminum
Alloys, by G. Siebel, 4 pp.

GERMAN, per, Z Metallkunde, Vol XL, 1949,
pp 214-217.

Tur
SLA 2296
A

Sci - Minerals/Metals
Oct 57

54, 033

Gerlach, Walther.

HETEROGENEOUS PRECIPITATION IN THE GOLD-NICKEL SYSTEM. [1961] [28]p. 3 refs
Order from SLA \$2.60

61-18317

Trans. of Zeitschrift für Metallkunde (West Germany)
1949, v. 40, no. 8, p. 281-289.

DESCRIPTORS: *Gold, *Nickel, *Alloys, *Crystals,
Precipitation, Decomposition, Temperature, Magnetic
properties

The decomposition of supersaturated gold-nickel mixed
crystals is analyzed quantitatively and with respect to
time for four compositions with 77.50, 26.5 and 14.5
at.-% Ni. The nickel-rich end phase does not occur
immediately in its final form. Probably regions still
richer in gold (up to 8%) are precipitated first, going
over into the normal composition 98-99% Ni, 1-2% Au
(Chemistry--Physical, TI, v. 6, no. 9) (over)

61-18317

I. Gerlach, W.

185439

Office of Technical Services

Experimental Problems in The Study of Diffusion
in Polycrystals of the Systems Al-Cu and Al-Ag,
by H. Jagodzinski.

GERMAN, per, Z. Metallkde., Vol 40, 1949,
pp 296-305.

*NTIS/USDC/NBS TT 71-55055
Available NBS Only

May 71

Metallic Wear During Sand Blasting, by K.
Wellinger.

GERMAN, per, Zeits. Metallkunde, Vol 40,
No 10, 1949, pp 361-364.
(TMS 1351)
CNRB 3367

314,401

Sci - Mechanical, Industrial,
Civil, and Marine Engineering
New 66

X-Ray Study of Behavior of Steels Under Repeated
Cyclic Stress, by A. Schaal.

GERMAN, per, Zeit Metallkunde, Vol XL, No 11,
1949, pp 417-427.

Brutcher Tr
No 3102

Scientific - Min/Metals Jan 56 CIS/DEX

\$13.60

30,246

Recrystallization in Solid Materials, by W. G. Burgers.
GERMAN, per, Z. Metallkunde., Vol 41, 1950, pp 2-8.

*NTIS/NBS TT 71-55131

Available NBS Only

June 71

Zeitschrift fuer Metallkunde, Vol. XLI, No. 3, 1950,
pp 71-75.

Werner Koester, The Kinetics of Age Hardening.

Proj. 8541

<p>Löhberg, Karl. CORROSION OF INTERMETALLIC COMPOUNDS [Korrosion Intermetallischer Verbindungen]. (1961) 8p. (5 tables, 8 refs., 4 graphs omitted). Order from SLA \$1.10</p> <p>Trans. of Zeitschrift für Metallkunde (West Germany) 1950, v. 41 [no. 2] p. 36-[59].</p> <p>DESCRIPTORS: *Intermetallic compounds, Aluminum compounds, Magnesium compounds, *Corrosion, Corrosion inhibition.</p> <p>(Metallurgy--Corrosion, TT, v. 7, no. 3)</p>	<p>61-20752</p> <p>I. Löhberg, K.</p> <p>61-20752</p> <p>Office of Technical Services</p>	
---	---	--

Magnesium Rolled Alloys With Zirconium, by
F. Sauerwald,

GERMAN, per, Z. Metallk., Vol XLI, No 3, 1950,
pp 81-87.

T
TPA3/TIB Tr No 4356

23,582

Scientific - Min/Metals May 55 CMS

The Evaluation of Creep Tests, by N. Ludwig. UEC
GARRETT, per, Z Metallkunde, Mar 1950, pp 87-91.

British Iron and Steel Ind
(no number given)

Sc1 - Min/Met
Sep 59

78,263

The Systematics of Molten Metals and Alloys Part III,
by F. Seuerwald.

Full translation.

GERMAN, per, Zeitschrift fur Metallkunde, Vol XII,
No 4, 1950, pp 97-104.

AEC Tr 1290

Scientific - Minerals/Metals

Jun 52 CIS

DEX

New Work on Recrystallization in Mehl's Group in
Pittsburgh, by K. Lucke.

GERMAN, per, Z. Metallkunde., Vol 41, 1950,
pp 114-124.

*NTIS/NBS TT 71-55132
Available NBS Only

June 71

Theory of Gasification and Degasification of
Molten Metal Baths, by W. Geller, 13 pp.

GERMAN, per, Z Metallkunde, Vol XLI, No 4, 1950,
pp 124-127.

SLA Tr 57-841

Sci - Minerals/Metals
Feb 58

58,542

Oxidation of Molten Cadmium and Cadmium ~~Alloys~~ Alloys
by W. von Gruhl, G. Wassermann, 5 pp.

GERMAN, per, Z. Metallkunde, Vol XLI, 1950,
pp 178-184.

S.L.A. Tr 1230

42,680

Sci - Min/Metals
Jan 57 CTS

Systematics of Molten Metals and Alloys,
Part I, III, by F. Sauerwald. UECI

GERMAN, per, Z Metallkunde, Vol XXXV, No 5,
pp 65-111; 1950, Vol XXI, No 4, pp 97-104;
1952, Vol XLIII, pp 214-218.

British Iron and Steel Ind
(no number given)

109,269

Sci - Min/Met
Sep 59

ZEITSCHIFT FÜR METALLKUNDE
1950 VOL N5 P129-140 70-11232-11F <>

Order from NTC

The Oxidation of Cadmium and Cadmium-Alloy
Melts, by Wolfgang, Gühn, Gunter
Wassermann.

GERMAN, per, Z Metall, Vol XLI, 1950,
pp 178-179, 183-184.

AEC IS Trans-24 9232575
EDD Mar 8, 1966

Sci-Chem/M/M
Mar 66

On the Systematics of Molten Metals and Alloys
Part III, by F. Sauerwald.

Full translation.

GERMAN, per, Zeitschrift fur Metallkunde, Vol XLI,
No 7, 1950, pp 214-218.

AEC Tr 1291

Scientific - Minerals/Metals

Jun 52 CTS

DEX

The Sintering of Aluminium Alloys, by A. von Zeerleder
GERMAN, per, Z. Metallk, Vol 41, No 8, pp 228-231.

TPA3/TIB T 4048

Scientific - Chemistry, metallurgy
Tr Avail @ The Secretary, Ministry of Supply,
TPA3/TIB/P & TD, Leysdown Road, Nottingham, London,
S.E.9

Index Aeronautics

5-75

Grain-Boundary Corrosion in Cu-Si Alloys, by
O. Heusler.
GERMAN, per, Zeit. Metallkunde, No 41, 1950,
pp 261-264.
NBS TT 70-57805
Available NBS Only

Sci/Mat
Sept 70

New Data on the Strengthening of Crystals During
Plastic Deformation of Crystals, by Fritz Rohn, Albert
Kochendorfer, 8 pp. UNCLASSIFIED

Full translation.

GERMAN, per, Zeitschrift fuer Metallkunde, Vol XII,
No 8, 1950, pp 265-272.

Navy Tr 655/NRL 409

Scientific - Physics

Sep 52 CTS/DET

Study of the Tensile Strength Behavior of
Metalllic Materials at Low Temperatures, by
Karl Wellinger, Willi Seufert, 13 p.

GERMAN, per, Zeit fur Metallkunde, 1950, Vol
Vol XLI, No 10, pp 817-321.
3

SLA 60-10172

Sci
Apr 60
Vol III, No 3

112,052

Roll, Albert.
INFLUENCE OF ULTRASONICS ON ELECTROLYTIC
PROCESSES. I. ELECTROLYTIC DEPOSITION OF
NICKEL IN THE ULTRASONIC FIELD. [1963] 17p
4refs
Order from SLA \$1.60

TT-63-20450

Trans. of Z[eitschrift für] Metallkunde (West Germany)
1950, v. 41, p. 339-345. (ABSTRACT AVAILABLE)

DESCRIPTORS: *Ultrasonics, *Electrodeposition,
Electrolytes, *Nickel, Oscillators, Cavitation, Tests,
Electrolysis.

Topics include: researches still in progress on the
influencing of electrochemical processes by ultra-
sonics; production of the ultrasonics of 34 kHz and
measurement of the acoustic field; measurement of
the current yield and deposition potential at various
sound intensities, and, stirring effect of the ultrasonics.
(Metallurgy, TT, v. 11, no. 4)

TT-63-20450

I. Roll, A.
II. Title: Electrolytic ...

Office of Technical Services

On the Crystallographic Indices of Grain Section Surfaces in Metallographic Sections, by H. Kostrom.

German, Z. Metallik., Vol XXXI(10), Oct 1950,
pp 370-377.

The Aluminium Laboratories LTD
Tr No OT/162

Scientific - Metallographic, crystallographic,
grain section surfaces

Index Acronauticus

Lanke, J. C. and Wassermann, G.
VOLUME CHANGES OF AN ALUMINUM-COPPER
ALLOY DURING THE VARIOUS STAGES PRE-
LIMINARY TO PRECIPITATION. [1960] 15p.
Order from ATS \$22.40 ATS-85M45G

Trans. of Zeitschrift für Metallkunde (West
Germany) 1950, v. 41, no. 11, p. 381-391.

143,100

(Metallurgy, TT, v. 5, no. 1)

61-12095

- I. Aluminum-copper alloys--
Phase studies
I. Lanke, J. C.
II. Wassermann, G.
III. ATS-85M45G
IV. Associated Technical
Services, Inc.,
East Orange, N. J.

Office of Technical Services

On the Influence of Supersonic Vibration on
Electrolytic Processes: I.-Electrolytic Deposition of
Nickel in a Supersonic Field, by A. Roll

GERMAN, per, Z. Metallk., 41 (11), 413-417. Nov 1950.

TPA3/YTB Tr No T 3974

Scientific - Metallurgy

The Influence of Supersonic Vibration on Electrolytic Processes: 2.-The Agitating Effect of Supersonic Vibration, by A. Roll

GERMAN, per, Z. Metallk., 41 (11), 413-417, Nov 1950.

TPA3/TB Tr No T 3975

Scientific - Metallurgy

A. Kussman

Study of conversions in the platinum-iron
system. 21 pp.
GERMAN, Zeit. Metallk, Vol 41, 1950, pp 470-
477
NASA TT F 14,320

oct 72

The Binary System Silver-Indium, by Erwin Hellner, 6 pp.

GERMAN, per, Z Metall, Vol XXII, 1951, pp 17-19.

ABC 3446

Sci - Chem, Min/Met

Dec 58

78, 253

The Application on Wagner's Theory of Tarnishing
Reactions to the Development of Alloys
Resistant to Dry Corrosion, by Karl Hauffe, 18pp
GERMAN, per, Zeitschrift fur Metallkunde,
Vol 42, 1951, No 2, pp 34-43
SLA TT-64-18861

Sci - Meta
May 67

346,696

High and Low Temperature Sintering Techniques,
by R. Kieffer.
GERMAN, per, Z. Metallkde., No 42, 1951, pp 97-106.
WUSDC/NBS TT 70-57530
Available NBS Only

Sci/Mat
Feb 71

On the Shape of the Plastic Stress-Strain Curve
of Very Pure Aluminum Crystals and the Development
of Deformation Bands, by K. Lücke, H. Lange, 38 pp.

GERMAN, per, Zeit fuer Metallkunde, Vol XLII, No 2,
1952, pp 55-66.

SLA 59-10947

Sci - Minerals/Metals
Sep 59
Vol. II, No 2

98,655

Melt and Solid Diffusion Bartered Materials;
by R. KARLICKY, J. Benešovský. USSR

GERMAN, per, Z Metallkunde, Vol XLII, No 4, 1951,
pp 97-105.

British Iron and Steel Inst
(no number given)

Sci-Min/Rst
Sep 59

98,250

The Influence of Supersonic Vibration on Electrolytic
Processes, The Influence of the Frequency on the
Agitating Effect of the Supersonic Vibration,
by A. Roll, G. Schrag, 19pp.

GERMAN, per, Z. Metallk., 42 (7), 197-201, July 1951.

SLA TT-63-20439
TPA3/TIB Tr No T 3976

Scientific - Metallurgy

The Influence of Supersonic Vibration on Electrolytic Processes:
-The Influence of Supersonic Vibration on the Brightness of Nickel Deposits, by ~~WERNER~~ A. Roll
20 pp

GERMAN, per, Z. Metallk., 42 (8), 238-243, Aug, 1951.

SLA TT-63-20440
TPA3/TIB Tr No T 3977

Scientific - Metallurgy

Assmus, F. and Pfeifer, F.
RESISTANCE ANOMALIES OF HIGHLY PERMEABLE
NI-FE-MO ALLOY. [1962] 11p. (refs. figs. omitted).
Order from SLA \$1.60 62-16918

Trans. of Zeitschrift für Metallkunde (West Germany)
1951, v. 42, Oct, p. 294-299.

DESCRIPTORS: *Nickel alloys, *Iron alloys, *Molyb-
denum alloys, Permeability, Resistance, Heat
treatment.

Changes in permeability and electrical resistance due
to additional heat-treating were investigated in a cer-
tain molybdenum-permalloy alloy. As a parallel pheno-
menon of the well known increase in permeability
there was found an increase in cold-resistance and de-
pendence of the hot-resistance on the rate of cooling
or the holding time at constant temperature. The
(Metallurgy, TT, v. 8, no. 9) (over)

62-16918

I. Assmus, F.
II. Pfeifer, F.

Office of Technical Services

A New Viewpoint on Strain Hardening of Metals, by
J. Bingel

GERMAN, per, Z. Metallk., 40 (10), 309-315, Oct 1951.

TPA3/TIB Tr No T 3991

Scientiric - Metals

On the Reaction Between Metals and Non-Metallics
to Form a High Melting Point Ceramic Material,
by E. Meyer-Hartwig.

GERMAN, per, Z. Metallkde., Vol 42, 1951,
pp 302-308.

*NTIS/USDC/NBS TT 71-55065

Available NBS Only

May 71

Semi-Metals With Continuous Transitional Properties
Between Metal and Ceramics, by Eberhard Meyer
Hartwig, 12 pp.

GERMAN, per, Z fuer Metallkunde, Vol XLII, No 10,
1951, pp 302-308.

ACSI I-2440
ID 2227678

Sci - M/M
Dec 63

243,418

Graf, L.
THE LAMELLAR GROWTH OF CRYSTALS. I. EX-
PERIMENTAL PART. [1961] 12p.
Order from ATS \$16.70 ATS-02N49G

Trans. of Z[eltschrift für] Metallk[unde] (West
Germany) 1951, v. 42, p. 336-340.

61-22158

- I. Crystals--Growth
- II. Graf, L.
- III. ATS-02N49G
- IV. Associated Technical
Services, Inc., East
Orange, N. J.

104134

Office of Technical Services

(Physics--Solid State, TT, v. 5, no. 11)

Sintering Study of Al, by E. Boenisch.
GERMAN, per, Z. Metallkde, Vol 42, 1951, pp 344-348.
*NTIS/USDC/NBS TT 71-55043
Available NBS Only

May 71

Effect of Magnetism on Diffusion in Some Ni-Cu
Alloys, by W. Koster.

GERMAN, per, Z. Metallkde, Vol 42, 1951,
pp 387-391.

*NTIS/USDC/NBS TT 71-55059

Available NBS Only

May 71

The Influence of Lead Upon the Modulus of
Elasticity and Upon Damping of Copper, Silver,
Brass, by Koster, Werner and Bangert, Lothar,
9 pp.

GERMAN, par, Zeit fur Metallkund, Vol XLII,
No 10, 1951, pp 391-394.

OAS 60-16481

Sci

188, 926

30 Mar 62

Investigations on Sintered Aluminium, by Edith Boenisch, W. Wiederholt.

GERMAN, per, ~~Zentral~~ Metallk, Vol XLII(11), Nov 1951,
pp 344-348.

Aluminium Laboratories, Ltd
Tr No B-TM-92-52 02/319

Index Aeromanticus

On the Rolling- and Recrystallization Textures of
Pure Aluminium, by H. J. Walbaum, 11 pp.

GERMAN, per, Z fuer Metallkunde, Vol XLII, No 12,
1951, pp 371-376.

B SLA 63-10003

S i
Jul 63

238,185

Graf, L.
THE LAMELLAR GROWTH OF CRYSTALS. II. THE
MECHANISM OF THE GROWTH OF CRYSTALS
UNDER CONDITIONS FAR FROM PHASE EQUILIBRIUM. [1951] 13p.
Order from ATS \$23.95

ATS-03N49C

Trans. of Z[eitschrift fur] Metallk[unde] (West
Germany) 1951, v. 42, p. 401-409.

See also #1-22158

61-22159

- I. Crystals--Growth
1. Graf, L.
- II. Title: Mechanism...
- III. ATS-03N49C
- IV. Associated Technical
Services, Inc., East
Orange, N. J.

109180

Office of Technical Services

(Physics--Solid State, TT, v. 5, no. 11)

The Effect of Extremely High Cooling Rate
on the Solidification and Structure of
Binary Alloys, by G. Falkenhagen,
Wilhelm Hofmann. 41 p.
GERMAN, per, Z. Metallk., No 41, 1952,
pp 69-81. 9228243
AEC SC-T-64-2011

Sci/M&M
May 66

300,489

Application of the Band Model of the
Electron Theory to the Crystal Chemistry of
Alloys, IV. Distortion of Simple Structures, by
K. Schubert

GIRMAN, per, Z Metallkunde, Vol XLIII, 1952,
pp 1-10.

Nat'l Res Council Canada TT 338

Scientific - Chemistry
ACG CRS/DEX

16,870

Sintering of Tungsten Carbide - Cobalt Compositions
as a Kinetic Surface Reaction, by W. Devihi

GERMANY, Zeitschrift Metallkundi, Vol 43, 1952, No 1,
pp 20-22.

Breitche Order No 3067

Scientific - Metallurgy Price \$8.90

1380

Effect of Magnetism on Diffusion In Sintered
Ni-Zn Alloys, by W. Koster.

GERMAN, per, Z. Metallkde, Vol 43, 1952,
pp 37-39.

*NTIS/USDC/NBS TT 71-55060

Available NBS Only

May 71

Contribution to the System Molybdenum-Silicon,
by R. Kieffer, E. Cerwenka

GERMAN, Zeitschrift für Metallkunde, Vol 43, 1952,
No 4, pp 101-105.

REINHOLD
Brutcher Order No 2960
Price \$xxxxxx \$5.80

1389

Scientific - Metallurgy

Internal Friction of Liquid Au-Ag Alloys by
E. Gebhardt, M. Becker.

GERMAN, Z. Metallk, Vol LXII, No 4, April 1952,
pp 111-117.

TPA3/TIB T 3981

*AEC

Scientific - Min/Metals

13,965

Alloys of Titanium With Copper, Silver, and Gold, by
E. Raub, P. Walter, M. Engel.

Full translation.

GERMAN, per, Zeitschrift fur Metallkunde, Vol XXXIII,
No 4, 1952, pp 112-115.

Brutcher Tr 3017

Scientific - Alloys, Ti-Cu, Ti-Ag, Ti-Au

On Slip Shrinkage in Metal-Metal Oxide Mixtures and
in Boron Carbide, by W. Dewahl, 7 pp.

GERMAN, per, Z Fuer Metallurgie, Vol XLIII, 1952,
pp 138-142.

AMC Bp 3597

Sci - Chem

May 59

86, 13⁻3

Influence of Stress and Temperature on Stress
Corrosion Tests, by Otto Lissner, 5 pp.

GERMAN, per, Z. Metallkunde, Vol XLIII, May 1952,
pp 147-150. 9215541

AEC-Tr-6127

Sci - Phys

Dec 63

244,178

Theoretical and Experimental Fundamentals
of Nondestructive Material Testing by the
Eddy Current Method, I. The Search Coil
Method, by Fritz Foerster,
GERMAN, per, Zeitschrift fur Metallk., Vol
XLIII, 1952, pp 163-171. P911078666
AEC ORNL-tr-1297

Sci-Materials
Nov 66

313,860

Schaaber, Otto.
NEW DEVELOPMENTS IN THE FIELD OF CONTINUOUS CASTING. [1963] [27]p. (figs. omitted) 42 refs.
Order from SLA \$2.60 63-16832

Trans. of [Zeitschrift für] Metallkunde (West Germany)
1952, v. 43, p. 181-190.

DESCRIPTORS: *Casting, *Steel, *Copper, *Aluminum.

After general review of the process of solidification in the usual ingot casting and in continuous rod casting, the factors determining the degree of difficulty in casting are discussed. The casting properties of steel, copper and aluminum are compared. (Author)

(Metallurgy, TT, v. 10, no. 8)

63-16832

I. Schaaber, O.

Office of Technical Services

On the Kinetics of the Ageing of Aluminium-Silver
Alloys, Part IV, by G. Ziegler

GERMAN, per, Z Metallkunde, Vol. XLIII, Jun 1952,
pp 213-216.

Fulmer Research Institute
46 OT/701

Scientific - Minerals/Metals
CT8/DEX

8912

Data of Small Angle Scattering of X-Rays on the
Structure c" Age-Hardening Alloys, by A. Cuinier

GERMAN, per, Z Metallk, Vol XLIII, 1952, pp 217-223.

X Fulmer Research Institute
41 OF/631

Scientific - Minerals/Metals
CTS/DEX

8227

Heat Transmission in Metal Melts in the Immediate
Neighbourhood of the Liquid/Solid Phase Boundary,
by O. Schaeber.

Full translation.

GERMAN, Z. Metallk., Vol 43, No 7, pp 251-258, July 1952

Aluminium Laboratories, LTD. Tr No
B-TM-104-52 OT 43b
also *Kava Sotka* No 279

Scientific - Metallurgy

Index Aeronautics - March 1953

Aluminum and Gas, in Part I., by J. H. Kestrom

GERMAN, per, Zeitschrift für Metallkunde,
Vol XLIII, No 8, 1952, pp 269-277.

Brutcher Tr 3276

AEC Tr 4933
909 786,

Scientific - Minerals/Metals

Jul CTS/DEX Price \$13.20

15,962

Aluminum and Gas. Part II, by H. Kostrow, UNCLASSIFIED.

GERMAN, per, Zeitschrift Fur Metallkunde, Vol XLIII, No 8,
1952, pp 277-284.

Brutcher Tr No 3277

Scientific - Min/Metals

17,372

Development and present Status of Continuous
Casting of Nonferrous Metals in the U. S., by
P. Bremner, 17 pp.

GERMAN, per, Z Metallkunde, Vol XLIII, 1952,
pp 325-332.

ALA 2313

54, 053

Sci - Minerals/Metals
Oct 57

Aluminum and Gas, Part III, by H. Kostron,

GERMAN, per, Z. f. Metallkunde, Vol XLIII,
No 6, 1952, pp 373-381.

Brutcher Tr No 3278

Scientific - Min/Metals

13,734

Aluminum and Gas. Part IV (Concluding), by
H. Kostron.

German
original, per, Zeitschrift Metallkunde, Vol. XLIII,
No 8, 1952, pp 381-387.

Brustcher Tr

No 3279

4/2/80

Scientific - Minerals/Metals CTS/DKX

19,513

Contributions to the Metallography of Light Metals.
IV. On the Crystallization of the Residual Melt in
Commercial Aluminum Alloys, by Hans Kostron,
Margarete Schippers, 13 pp.

GERMAN, per, Zeit für Metallkunde, Vol XLIII, No 9,
Sep 1952, pp 303-306.

S.L.A. 1021

33,504

Scientific - Metals/minerals

Preparation of Fe-In Alloys From
Amalgams (slightly abridged), by
F. Libl; A. Denel.
GEMWU, per, Zeitschrift fur Metallkunde,
Vol 43, No 9, 1952, pp 307-310.
SISI 4111

EE-Germany
Sci/MUN
May 65

278,821

Tinning and Soldering of Aluminum by Ultrasonics,
by P. Wenk, H. Boljahn

RW

GERMAN, per, Zeitschrift fur Metallkunde,
Vol XLIII, No 9, 1972, pp 322-324.

Brutcher Tr 3231

11,409

Scientific - Minerals/Metals
CTS/DEX
Price \$2.90

The Creep of Aluminium Wire Spirals, by G. Lucas,
G. Rasing

GERMAN, per, Z. Metallk., Vol XLIV, No 10, Oct 1932,
pp 341-349.

TPA3/TIB T 408/93

8187

Scientific - Minerals/Metals
CTS/DEX

On the Constitution Diagram of the System Copper-Silver-Indium. II. Equilibrium Course Up to Indium Contents of 30%, by Erich Gobhardt, H. Maerz & Dreher, 13 pp.

GESSNER, per, Z Metallkunde, Vol XLIX, 1952,
pp 357-362.

ABC Tr 3576

Sci - Chem/Met

Apr 59

85,752

The Influence of Alloying Constituents and Treatment
with Metallic Oxide Vapours on the Oxidation Rate
of Nickel and Titanium, by R. Pfeiffer, K. Hauffe.

43

GERMAN, per Z. Metallk, Vol XXIII, No 10, Oct 1952,
pp 364-369,

AEC TR 2507

TPA3/TIB, T 4130

10,998

Scientific-Min/mets

II. Bubbles and Pores in Malleable Materials, by
Hans Kostron, 49 pp.

GERMAN, per, Z Metallkunde, Vol XLIII, No 11, 1952,
pp 373-387. 9097854

AEC Tr-4949

Sci - Min/Metals
Apr 62

189, 925-

Investigation on Zinc Alloys Made from "Five-Nine"
Zinc (99.99%), by W. Hofmann, F. Erdmann-Jechitzer,
E. Hanemann
UNCLASSIFIED

GERMAN, per, Z. Metallk., Vol XLIII, No 12, 1952,
pp 417-421

TPA3/TIB T 4226

Scientific - Min/Metals

April 54 CTS/DEX

11, 563

Internal Notch Effect and Surface Sensitivity
Under Cyclic Bending Stresses. Part IV of
Processes Occurring in Metals Under Tensile and
Fatigue Stresses, by C. Petersen

GERMAN, no per, Z. Metallkunde, Vol XLIII, no
No 12, 1952, pp 429-433.

Bruncher Tr 3157

\$6.80

88,525

Sci - Min/Metals
Sep 56 GTS

Aluminum and Gas. II. Blisters and Pores in Plastic Materials, by Hans Kostron.

GERMAN, per, Z Metallkunde, Vol XLVI, No 11, 1952,
pp 373-387.

*AEC

Sci - Min/Metals
Nov 61

X-Ray Methods for the Direct Measurement of Stress Components Without the Use of Reference Lines, by E. Oswald, 13 pp.

GERMAN, per, Z. Metallkunde, Vol XXXV, Pt 1, Jan 1953, pp 19-21.

SLA 58-648

Sci

95, 673

Aug 59

The Influence of Lead Upon the Modulus of Elasticity and Upon Damping of Copper, Silver, Brass, by Koster, Werner and Bangert, Lothar, 9 pp.

GERMAN, per, Zeit fur Metallkund, Vol XLII, No 10, 1951, pp 391-394.

OTS 60-16481

Sci

30 Mar 62

Contributions to the Metallography of Light Metals:
6. - On the Etching of Super-Purity Aluminium, by
H. Kostron, E. Hoffler, W. Sautter.

GERMAN, per, Z. Metallk, Vol XLIV, No 1, Jan 1953,
pp 17-21.

Aluminium Laboratories LTD
B-TM-131-53, OT/872

Scientific - Minerals/Metals
Aug 54 CTS 16, 403

Light Migration on Contacts From Alloys With Over-
structure, by E Albert KEIK and Meyer Keil, Carl-
Ludwig, 16 pp.

GERMAN, per, Zeit Metallkunde, Vol XLIV, No 1,
Jan 1953, pp 22-26.

S.I.A. Tr 1007/1956

Sci - Minerals/Metals

39,227

The Kinetics of Magnetite Formation in the
Oxidations of Iron, by Karl Bauffe, Hansd
Pfeiffer, 25 pp.

GERMAN, per, Zeit Metallk, Vol XLIV, 1953,
pp 27-36.

AEC Tr 2514

Hci - Minerals/Metals 36, 779

Jul 1956

On Hardness, by Herbert Moser, 14 p.

GERMAN, per, Zeit fur Metallkunde, 1953, Vol XLIV,
No 2, pp 43-50.

SLA 59-17965

Sci
Mar 60
Vol 2, No 11

Dept of Int'l
Affairs
109,632

The Changes in Electrical Resistance During
Cold Deformation, by S. Weyerer. UNCLASSIFIED

Z,
GERMAN, per, Metallkunde, Vol XLIV, 1953,
pp 51-58.

DSIR/31430/CR

Sci - Phys
Sci - Min/Met
Sep 58

73, 856

Application of the Geiger-Counter X-Ray Spectrometer
to the Direct Determination of Transformation Rates
(Phase-Change Reaction Velocities), by Rosler, Ulrich
and Ruff, Wolfram.

GERMAN, per, Z. Metallkunde, Vol XLIV, No 2, 1953,
pp 65-68.

Assoc Tech Sv 33,145
19730

Sci • Physics, Chemistry

(\$5.50)

Stress Corrosion in Aluminium Alloys, by P. Brenner.

GERMAN, per, Zeit fur Metallkunde, Vol XLIV, No 3,
Mar 1953, pp 85-97.

Aluminium Laboratories, Ltd. Tr B-TM-184-55
07/1825

Sci - Min/metals

39, 918

Plastic Deformability of Germanium at Higher
Temperatures, by L. Graf, H. Incour, K. Seiler,
6 pp.

GERMAN, per, Z Metallkunde, Vol XLIV, Mar 1953,
pp 113-114.

SLA 57-994

May 58

63,822

Study of the Fross Formation on Lead Alloys When An Air Stream is Injected Into the Melt, by Helmut Hartmann, et al., 7 pp.

GERMAN, per, Z^vMetallkunde, Vol XLIV, No 4, 1953,
pp 123-126.

S.L.A. Tr 456/1956

EEur - Germany
Scientific - Minerals/Metals

36,595

The Result of Diffusion Processes in Artificial Mixed Crystals, by Theo Heumann, and Alfons Kottmann, 27 pp.

GERMAN
German, per, Z. Metallkunde, Vol XLIV, 1953, pp 139-154.

Chemistry S.L.A. Tr 74/1956
Scientific - Physics; Min/Metals
33,998

Reactions Between Solid Iron and Liquid Aluminum and
Aluminum Alloys, by E. Gebhardt, W. Czrowski.

Full translation.

GERMAN, per, Zeitschrift für Metallkunde, Vol XLIV,
1953, pp 154-160.

BISI 10722

Brücker Trans No 3149

Scientific - Minerals/Metals

Sep 53 CTS

\$9.20 price

51841

Investigations of the Amalgams of the Metals
Manganese, Iron, Cobalt, Nickel, and Copper,
by F. Lihl.

GERMAN, per, Zeitschrift fur Metallkunde, Vol
XLIV, 1953, pp 160-166.

Dept of Int
US Bur of Mines
Eastern Exper Sta
College Park, Md.

Sci - Min/Met

May 59

87,733

Periodic Liquation in the Continuous Casting of
Commercial-Purity Aluminium, by G. Siebel, D. A.
Altenpohl, H. M. Cohen.

GERMAN, per, Z. Metallk, Vol XLIV, No 5, 1953,
pp 173-183.

Aluminium Laboratories, Ltd
B-TN-138-54
OT/975

Scientific - Min/Metals

13, 270

The Metallography of Light Metals: Growth and Recombination Phenomena During Crystallization, by H. Koetzen, M. Schipporeit.

GERMAN, per, Z Metallkunde, Vol XLIV, No 5, 1953,
pp 192-197.

Alum Lab, Ltd Tr B-TM-198-56
CP/SH:1

Sci - Min/scr
Nov 57

55-352

SLA 57-1807

Ultrasonic Testing of Materials in the Light Metal Industry, by Josef Krauthamer, Walter Roth.

GERMAN, per, Zeitschrift fur Metallkunde, Vol. XLIV, 1953, pp 198-207.

AEC Tr 1699

Buchanan 380

Scientific - Minerals/Metals

Sep 53 CIS

5718